### PATENT COOPERATION TREATY

## **PCT**

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## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's	file reference					
MM/03154/PCT	Tile reference	FOR FURTHER	ACTION	See Form PCT/IPEA/416		
International applicati PCT/EP2004/011		International filing dat 06.10.2004	e (day/month/year)	Priority date (day/month/year) 10.10.2003		
B01L3/14	classification (IPC) or n	ational classification and	IIPC			
Applicant AZIENDE CHIMIC	CHE RIUNITE AND	GELINI FRANCESO	CO et al.			
· · · · · · · · · · · · · · · · · · ·	or rando do ana nar	ismitted to the applica	trit according to Article 36,	International Preliminary Examining		
		of 6 sheets, including				
		y ANNEXES, compris				
a. 🛭 sent to	the applicant and to	the International Bui	reau) a total of 1 sheets,	as follows:		
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~~	eets which supersed yond the disclosure pplemental Box.	le earlier sheets, but v In the international ap	which this Authority conside plication as filed, as indication	lers contain an amendment that goes ated in item 4 of Box No. I and the		
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4. This report co	ntains indications rel	ating to the following	items:			
☑ Box No. I	Basis of the opin	ion				
☐ Box No. II	Priority					
☐ Box No. III	Non-establishme	ent of opinion with reg	ard to novelty, inventive st	ep and industrial applicability		
☐ Box No. IV	Lack of unity of in	nvention	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	op and modelial applicability		
⊠ Box No. V	applicability; citat	nent under Article 35( tions and explanations	<ol><li>with regard to novelty, is supporting such stateme</li></ol>	nventive step or industrial nt		
☐ Box-No. VI						
☐ Box No. VI	Certain defects in	the international app	lication			
⊠ Box-No. VI	l Certain observati	ons on the internation	al application			
Date of submission of the demand		Date of completion of this r	eport			
03.08.2005		26.01.2006				
preuminary examining a	Name and mailing address of the international preliminary examining authority:			Section Delineage.		
European-Patent Office - P.B. 5818 Patentiaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016		Tiede, R	.1090			
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## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/011349

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_	Box No. I Basis of the report	t .	
1	<ol> <li>With regard to the language, this report is based on the international application in the language ir filed, unless otherwise indicated under this item.</li> </ol>		
	which is the language of a  ☐ international search (un  ☐ publication of the intern	nslations from the original language into the following language, translation furnished for the purposes of: der Rules 12.3 and 23.1(b)) ational application (under Rule 12.4) v examination (under Rules 55.2 and/or 55.3)	
2	With regard to the elements* o have been furnished to the rece report as "originally filed" and a	f the international application, this report is based on (replacement sheets which eiving Office in response to an invitation under Article 14 are referred to in this re not annexed to this report):	
	Description, Pages		
	1-10	as originally filed	
	Claims, Numbers		
	4-19	as originally filed	
	1-3	received on 11.08.2005 with letter of 03.08.2005	
	Drawings, Sheets		
	1/3-3/3	as originally filed	
	☐ a sequence listing and/or ar	ny related table(s) - see Supplemental Box Relating to Sequence Listing	
3.	☐ The amendments have rest ☐ the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/figs ☐ the sequence listing (specific parts) ☐ any table(s) related to see	s ecify):	
4.	☐ This report has been estable had not been made, since they is Supplemental Box (Rule 70.2(c)) ☐ the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/figs ☐ the sequence listing (specified any table(s) related to see	ecify):	
	* If item 4 applies, so	ome or all of these sheets may be marked "superseded."	

International application No. PCT/EP2004/011349

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

3,5-8

No: Claims

1,2,4,9-19

Inventive step (IS)

Yes: Claims

No: Claims

1,2,4-19

Industrial applicability (IA)

2. Citations and explanations (Rule 70.7):

Yes: Claims

1-19

No: Claims

see separate sheet

#### Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

#### Re Item V.

1 The following documents are referred to in this communication:

D1: US 5 663 051 A (VLASSELAER PETER VAN) 2 September 1997 (1997-09-02)

D2: US 6 197 579 B1 (HASAN SHIRIN W ET AL) 6 March 2001 (2001-03-06)

D3: WO 02/089725 A (NEXELL THERAPEUTICS INC ;JULIAR RENA (US);

ETTEFAGH GUITY (US)) 14 November 2002 (2002-11-14)

D4: US 2002/185457 A1 (SMITH EMERY ET AL) 12 December 2002 (2002-12-12)

#### 2 INDEPENDENT CLAIM 1

- 2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT. Document D2 discloses (the references in parentheses applying to this document): A disposable container for centrifugation comprising a container with a removable lid (figure 1; columns 5 and 6 and fig. 4 and 6a), said lid comprising three opening with canulas entry ports (72, 76, 77) and a removable stopper (col. 6, line 13; col. 9, line 66) for a vent channel suitable to control venting. Furthermore it discloses that said length of one of said canulas can be varied in length (col. 6, line 33) and in particular it has a length equal in height of the container (fig. 6c and col. 10, lines 1-9).
- 2.2 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not inventive in the sense of Article 33(2) PCT.

  Document D1 discloses (the references in parentheses applying to this document): A disposable container for centrifugation comprising a container with a lid (figure 6; column 11), said lid comprising three opening with canulas (92, 78, 82, "luer ports") and a removable stopper (86) for a vent channel, said cap is suitable to control the entry and exit of air. Furthermore, one of said canulas has a length at least equal to that of the height of said container. The device is suitable for control of entry and exit of air and the sterile handling of samples without sterile hoods.
- 2.3 D1 differs from claim 1 in that it does not disclose a removable lid in combination with the embodiment of fig. 6. However, removable lids are a well known and a common

feature of container for centrifugation (see for example in D1 with respect to embodiments relating to fig. 1-5 and 8), in fact it must be regarded as a commonly known design feature/possibility of such containers. Such a feature can only be regarded as inventive, if the removability of said lid presents unexpected effects or properties. However, no such effects or properties are indicated in the application. Hence, no inventive step is present in the subject-matter of claim 1.

#### 3 DEPENDENT CLAIMS 2, 4, 5-19

Dependent claims 2, 4, 5-19 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT), see citations as given in the International Search Report).

#### 4 DEPENDENT CLAIM 3

The combination of the features of dependent claim 3 are neither known from, nor rendered obvious by, the available prior art. The reasons are as follows: Subject-matter of claim 3 differs from D1 in that a tap is foreseen at the vent port.

Said vent port solves the problem to simplify operation under sterile conditions (page 2).

Although the problem is well known, D1 does not suggest or imply taps at the vent port in order to regulate ventilation of said container.

Subject-matter of claim 3 is therefore new and inventive (Article 33 PCT).

#### Re Item VIII.

Claims 5-7, 9 relate to features of a needle and a syringe to be used with a container of claim 1. However, according to the wording of claim 1 neither said needle nor said syringe are part of the claimed container - the container is simply suitable to be used

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International application No.

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with a needle/syringe. This leaves the reader in doubt as to the meaning and scope of claims 5-7 and eventually also claim 1. Claims 1, 5-7 are therefore not clear (Article 6 PCT).

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1-D4 is not mentioned in the description, nor are these documents identified therein.

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#### **CLAIMS**

- 1. A disposable container (1) for centrifuging and treating a fluid biological material, said container (1) being provided with an open top end and a closed bottom end (16), characterized in that said top end is provided with a lid (2) having:
  - a) a first opening (3) passed through by a first cannula (4) which can be connected operationally to the external environment in order to control the entry and exit of air in conjunction with the transfer of a fluid biological material into or from said container;
- b) a second opening (7) passed through by a second cannula (8)
   which can be accessed by a hollow needle (9) in order to transfer
   a fluid biological material into or from said container (1) through
   said hollow needle (9);
  - c) a third opening (11) passed through by a third cannula (12) operationally connected to an attachment (22) able to receive and accommodate one end of a syringe (18) in order to transfer a fluid biological material into or from said container (1) through said third cannula (12), and
  - d) the top end (5, 24) of said first cannula (4) is provided with a removable stopper (20, 25) for controlling the entry and exit of air in conjunction with the transfer of a fluid biological material into or from said container.
- 2. A container (1) according to Claim 1, characterized in that said top end (5) of said first cannula (4) is shaped so as to receive and accommodate one end (19) of a syringe (18) or an adaptor (23) fitted onto said end (19) of said syringe (18) in order to transfer a fluid biological material into or from said container (1) through said first cannula (4).
- 3. A container (1) according to Claim 2, characterized in that a tap (6) is arranged between said top end (5) and said first cannula (4).

